

## IMPROVED FEED AND CONTROL SYSTEM FOR AN INTERNAL COMBUSTION ENGINE FED WITH TWO DIFFERENT FUELS

### ABSTRACT

An improved feed and control system for an internal combustion engine able to be fed with one or other of two fuels such as petrol and liquid gas or petrol and methane, said engine comprising a plurality of first members (26) for introducing a first fuel into corresponding explosion chambers and a plurality of second members (6) for introducing the second fuel into said explosion chambers, said first introduction members (26) being commanded and controlled by a control unit (8) which, on the basis of preselected parameters, acts on said first members (26) such as to achieve optimum engine operation. Said control unit (8) also commands and controls the plurality of said second introduction members (6) which feed the second fuel to the respective explosion chambers, said unit (8) hence being the only unit for controlling the engine operation, independently of whether it is operated with the first or with the second fuel.

Regulator means are provided to regulate the pressure and density of the second fuel fed to each of said second introduction members in order to maintain optimum engine operation when this is fed with the second fuel and said second members (6) are under the control of said single control unit (8).